



Nuclear Engineering Division



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Making Nuclear Energy a vital form of energy for the future of the planet.



104 plants in the USA
= 101 GW electric
11% of installed capacity
Generating 20% of the electricity
All without the production of greenhouse gases

445 plants World Wide
= 375 GW electric
France has 59 plants
Generating 78% of
That nation's electricity

Who Are We?

- The ASME Nuclear Engineering Division focuses on the design, analysis, operation and maintenance, development and testing, of reactor systems and components, which includes operating reactors, advanced reactors, nuclear fusion, heat transport, nuclear fuels technology and radioactive waste.

Membership

	2007	2008	2009
Primary –	1,730	1,762	1,572
Secondary –	1,719	1,805	1,659
Other –	3,303	3,318	3,150
Total –	6,752	6,885	6,381

About The Conference



- The 18th International Conference on Nuclear Engineering (ICONE18) will be held in May 17-21, 2010 in Xi'an, China. The organizing committee is now encouraging all potential attendees to submit papers for this great event. Xi'an is an ancient city with history of more than 3000 years. It was the capital of China for 13 dynasties and is considered to be one of the four major ancient civilization capitals of the world.

• Previous Conference

The ICONE-17 was held on June 12-16, 2009, at the Sheraton Brussels Hotel.

• Technical Tracks

We invite you to join us at ICONE18. Topics will include:

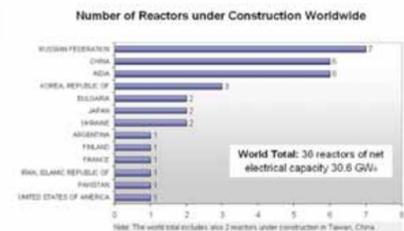
- TRK-1: Plant Operations, Maintenance, Engineering, Modifications, Life Cycle and Balance of Plant
- TRK 2 Component Reliability and Materials Issues
- TRK 3 Structural Integrity
- TRK 4 Nuclear Technology Applications and Innovations
- TRK 5 Advanced Reactors
- TRK 6 Safety And Security
- TRK 7 Codes, Standards, Licensing and Regulatory Issues
- TRK 8 Fuel Cycle and Decommissioning
- TRK 9 Thermal Hydraulics
- TRK 10 Reactor Physics and Transport Theory
- TRK 11 Nuclear Education, Public Acceptance and Related Issues
- TRK 12 Instrumentation & Controls (I&C)
- TRK 13 Fusion Engineering
- TRK 14 Panel Sessions
- TRK 15 Student Paper Competition

Other NED Activities Being Pursued and Reviewed for 2009 & 2010

- NED Scholarship Program
- NED Journal Publication
- Participate in the 2010 “ASME International Heat Transfer Conference”
- Co-sponsoring PHYSOR2010
- Advocate of Safe and Clean Nuclear Energy for the Future

Nuclear Power Plants Under Construction by Type and Country in the World

Type	Number of Units	Total MW(e)
BWR	3	3925
FBR	2	1220
LWGR	1	925
PHWR	4	1298
PWR	26	23235
Total:	36	30603



Data presented above is from PRIS database. Last updated on 2008/09/26

New Reactor Designs

Reactor Design	Vendor	Approximate Capacity (MWe)	Reactor Type	Certification Status	Target Certification In
AP600	Westinghouse	60	PWR	Certified	Certified
AP1000*	Westinghouse	117	PWR	Certified	Certified
ABWR*	GE	137	BWR	Certified	Certified
System 80*	Westinghouse	130	PWR	Certified	Certified
ESBWR*	GE	150	BWR	Underdevelopment	2017
EPR*	AREANP	160	PWR	Pre-certification	2010
PRMR	Westinghouse	18	HTGR	Pre-certification	Indefinite
IRIS	Westinghouse	30	PWR	Pre-certification	2010
US APWR	Mitsubishi	160	PWR	Underdevelopment	2011
ACR Series	AECL	70-120	Modular PWR	Pre-certification	Indefinite
GT-MHR	General Atomics	35	HTGR	Research/development	Indefinite
4S*	Toshiba	100	Sodium-cooled	Pre-development	Indefinite

Note: Data are approximate targets which may change. Designs marked with an asterisk (*) are also supported by electricity generating firms or organizations publicly investigating possible construction in the U.S. AECL is Atomic Energy of Canada Limited. Taken from <http://www.eia.doe.gov/>.

ICEM'09



THE 12TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL REMEDIATION & RADIOACTIVE WASTE MANAGEMENT

OCTOBER 11-15, 2009 – LIVERPOOL, UK

Technical Tracks

- Low/Intermediate-Level Waste Management
- Spent Fuel, Fissile, Transuranic, High-Level
- Waste Management
- Facility Decontamination and Decommissioning
- Environmental Remediation
- Environmental Management /Public Involvement